



15
SEQUENCE LISTING

<110> MEINIEL, ANNIE
MONNERIE, HUBERT
GOBRON, STEPHANIE

<120> NOVEL POLYPEPTIDES AND POLYPEPTIDES USEFUL FOR
REGENERATING THE NERVOUS SYSTEM

<130> 065691/0179

<140> 09/462,909
<141> 2000-02-14

<150> PCT/FR98/01556
<151> 1998-07-16

<150> FR 97/09016
<151> 1997-07-16

<160> 168

<170> PatentIn Ver. 2.1

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Trp Ser Pro Cys Ser Xaa Xaa Xaa Xaa Xaa Cys Gly
1 5 10

<210> 60
<211> 11
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37
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<400> 60
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1 5 10

<210> 61
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<223> Gly, Ser or Cys

<220>
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<400> 61
Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Cys Gly
1 5 10

<210> 62
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peptide

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40
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<400> 62
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<210> 63
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D5

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<223> Gly, Ser or Cys

<220>
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<400> 63
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1 5 10

<210> 64
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<212> PRT
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<220>
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<400> 64
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1 5 10 15

<210> 65
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<212> PRT
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<220>
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D5
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<400> 65
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1 5

<210> 66
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<220>
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peptide

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<400> 66
Trp Ser Xaa Cys Ser Val Ser Cys Gly
1 5

<210> 67
<211> 9
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42
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<400> 67
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1 5

<210> 68
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1 5 10

<210> 69
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<400> 69
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<210> 70
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43
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<400> 70
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1 5 10

D5
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<400> 71
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<210> 72
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<400> 72
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1 5 10

<210> 73
<211> 11
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44
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<400> 73
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1 5 10

<210> 74
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<210> 76
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45
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<400> 76
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1 5 10

<210> 77
<211> 13
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<220>
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1 5 10

<210> 78
<211> 13
<212> PRT
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<400> 78
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<210> 79
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46

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<220>
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<223> Gly, Ser or Cys

<400> 80
Trp Ser Xaa Trp Xaa Xaa Cys Ser Arg Ser Cys Gly
1 5 10

<210> 81
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 81
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<210> 82
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47
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<220>
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<223> Gly, Ser or Cys

<220>
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<223> Gly, Ser or Cys

<400> 82
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1 5 10

<210> 83
<211> 9
<212> PRT
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DS
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<210> 84
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<400> 84
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1 5 10

48
34

<210> 85
<211> 9
<212> PRT
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<210> 86
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<400> 86
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1 5 10

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D5
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1 5 10

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1 5 10

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DS
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1 5 10

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<223> Gly, Ser or Cys

<220>
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<400> 91
Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Xaa Cys Gly
1 5 10

51
21

<210> 92
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<220>
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<220>
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D5
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1 5 10

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<212> PRT
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<220>
<221> MOD_RES
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<223> Gly, Ser or Cys

<220>
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<400> 93
Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Xaa Xaa Cys Gly
1 5 10 15

52
28

<210> 94
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<220>
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1 5 10

DS
<210> 95
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<400> 95
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<210> 96
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<212> PRT
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53
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<220>
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<223> Gly, Ser or Cys

<400> 96
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1 5 10

<210> 97
<211> 18
<212> PRT
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<223> Any amino acid; this range may encompass 1-5 residues or
no residues at all.

<220>
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<222> (8)
<223> Any amino acid

<220>
<221> MOD_RES
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<223> Any amino acid

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<223> Any amino acid; this range may encompass 1-5 residues or
no residues at all.

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1 5 10 15

Xaa Xaa

<210> 98
<211> 19
<212> PRT
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54
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<220>
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<220>
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<223> Any amino acid

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<220>
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<222> (15)..(19)
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 98
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1 5 10 15

Xaa Xaa Xaa

<210> 99
<211> 20
<212> PRT
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<220>
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<220>
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55
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<222> (11)..(13)
<223> Any amino acid

<220>
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<222> (16)..(20)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 99
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1 5 10 15

Xaa Xaa Xaa Xaa
20

<210> 100
<211> 21
<212> PRT
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DS
<220>
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<220>
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<223> Any amino acid

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<223> Any amino acid

<220>
<221> MOD_RES
<222> (17)..(21)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

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1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

<210> 101
<211> 22

56
42

<212> PRT
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<220>
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<220>
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<223> Any amino acid

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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

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1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 102
<211> 19
<212> PRT
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<220>
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<220>
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<222> (8)..(9)
<223> Any amino acid

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<220>
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<223> Any amino acid

<220>
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 102
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Cys Ser Xaa Cys Gly Xaa Xaa
1 5 10 15

Xaa Xaa Xaa

<210> 103
<211> 20
<212> PRT
<213> Artificial Sequence

D5
<220>
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
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<223> Any amino acid

<220>
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<222> (16)..(20)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 103
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Cys Ser Xaa Xaa Cys Gly Xaa
1 5 10 15

Xaa Xaa Xaa Xaa

58
◆

<210> 104
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<212> PRT
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<220>
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<220>
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D5

<220>
<221> MOD_RES
<222> (12)..(14)
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<221> MOD_RES
<222> (17)..(21)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

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1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

<210> 105
<211> 22
<212> PRT
<213> Artificial Sequence

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<220>
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<221> MOD_RES

59
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<222> (12)..(15)
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<220>
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<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 105
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1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 106
<211> 23
<212> PRT
<213> Artificial Sequence

DS

<220>
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<220>
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<222> (19)..(23)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 106
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1 5 10 15

Cys Gly Xaa Xaa Xaa Xaa Xaa
20

60
46

<210> 107
<211> 20
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<223> Any amino acid

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D5
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<222> (16)..(20)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 107
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Cys Ser Xaa Cys Gly Xaa
1 5 10 15

Xaa Xaa Xaa Xaa
20

<210> 108
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
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61
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<222> (8)..(10)
<223> Any amino acid

<220>
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 108
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Cys Ser Xaa Xaa Cys Gly
1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

D5
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 109
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Cys Ser Xaa Xaa Xaa Cys
1 5 10 15

62
48

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 110
<211> 23
<212> PRT
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<220>
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peptide

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<223> Any amino acid; this range may encompass 1-5 residues or
no residues at all.

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<223> Any amino acid; this range may encompass 1-5 residues or
no residues at all.

<400> 110
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Cys Ser Xaa Xaa Xaa
1 5 10 15

Cys Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 111
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
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peptide

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no residues at all.

6
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<220>
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      no residues at all.

<400> 111
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Cys Ser Xaa Xaa Xaa Xaa
      1           5           10          15

Xaa Cys Gly Xaa Xaa Xaa Xaa Xaa
      20

DS

<210> 112
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<212> PRT
<213> Artificial Sequence

<220>
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      peptide

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      no residues at all.

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<223> Any amino acid; this range may encompass 1-5 residues or
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<400> 112
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Xaa Cys Ser Xaa Cys Gly
      1           5           10          15
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64
58

Xaa Xaa Xaa Xaa Xaa
20

<210> 113
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D5
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

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1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 114
<211> 23
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<220>
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<400> 114
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1 5 10 15

Cys Gly Xaa Xaa Xaa Xaa Xaa
20

DS

<210> 115
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66
52

<400> 115
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1 5 10 15

Xaa Cys Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 116
<211> 25
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DS
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1 5 10 15

Xaa Xaa Cys Gly Xaa Xaa Xaa Xaa Xaa
20 25

<210> 117
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
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67
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<223> Any amino acid

<220>
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 117
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Xaa Cys Ser Xaa Cys
1 5 10 15
D5
Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 118
<211> 23
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<220>
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

68
94

<400> 118
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Xaa Cys Ser Xaa Xaa
1 5 10 15

Cys Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 119
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DS
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<223> Any amino acid

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<400> 119
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1 5 10 15

Xaa Cys Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 120
<211> 25
<212> PRT
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<220>
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69

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<223> Any amino acid

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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

Ds
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1 5 10 15

Xaa Xaa Cys Gly Xaa Xaa Xaa Xaa Xaa
20 25

<210> 121
<211> 26
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<223> Any amino acid

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<222> (22)..(26)

70

86

<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 121

Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Xaa Xaa Cys Ser Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Cys Gly Xaa Xaa Xaa Xaa Xaa
20 25

<210> 122

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

DS
<220>

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<222> (1)..(5)

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<220>

<221> MOD_RES

<222> (8)

<223> Gly, Ser or Cys

<220>

<221> MOD_RES

<222> (10)..(11)

<223> Gly, Ser or Cys

<220>

<221> MOD_RES

<222> (14)

<223> Any amino acid

<220>

<221> MOD_RES

<222> (17)..(21)

<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 122

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1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

<210> 123

<211> 18

<212> PRT
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<220>
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<220>
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 123
Xaa Xaa Xaa Xaa Xaa Trp Ser Pro Cys Ser Xaa Cys Gly Xaa Xaa Xaa
1 5 10 15
Xaa Xaa

<210> 124
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
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<222> (8)
<223> Gly, Ser or Cys

<220>
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<222> (10)..(11)
<223> Gly, Ser or Cys

72
~~28~~

<220>
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<223> Any amino acid

<220>
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 124
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Xaa Xaa Cys Ser Xaa Xaa Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

D5
<210> 125
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<223> Any amino acid

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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 125
Xaa Xaa Xaa Xaa Xaa Trp Ser Pro Cys Ser Xaa Xaa Cys Gly Xaa Xaa
1 5 10 15

Xaa Xaa Xaa

<210> 126
<211> 23
<212> PRT
<213> Artificial Sequence

73
69

<220>
<223> Description of Artificial Sequence: Synthetic peptide

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<220>
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<223> Gly, Ser or Cys

<220>
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<223> Gly, Ser or Cys

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DS

<220>
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<222> (19)..(23)
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<400> 126
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Xaa Xaa Cys Ser Xaa Xaa Xaa
1 5 10 15

Cys Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 127
<211> 20
<212> PRT
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<222> (16)..(20)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 127
Xaa Xaa Xaa Xaa Xaa Trp Ser Pro Cys Ser Xaa Xaa Xaa Cys Gly Xaa
1 5 10 15

Xaa Xaa Xaa Xaa
20

<210> 128
<211> 24
<212> PRT
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<220>
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DS
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<223> Gly, Ser or Cys

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<223> Any amino acid

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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 128
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Xaa Xaa Cys Ser Xaa Xaa Xaa
1 5 10 15

Xaa Cys Gly Xaa Xaa Xaa Xaa Xaa
20

25
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<212> PRT
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<220>
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<223> Any amino acid

<220>
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<222> (17)..(21)
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DS

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Xaa Xaa Xaa Xaa Xaa Trp Ser Pro Cys Ser Xaa Xaa Xaa Xaa Cys Gly
1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

<210> 130
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<220>
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<220>
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<222> (10)..(11)
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 130
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Xaa Xaa Cys Ser Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Cys Gly Xaa Xaa Xaa Xaa
20 25

DS
<210> 131
<211> 22
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<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 131
Xaa Xaa Xaa Xaa Xaa Trp Ser Pro Cys Ser Xaa Xaa Xaa Xaa Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 132
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<220>
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<222> (11)
<223> Gly, Ser or Cys

DS

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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 132
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Cys Gly
1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

<210> 133
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<223> Gly, Ser or Cys

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<222> (14)..(15)
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<222> (18)..(22)
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<400> 133
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Cys
1 5 10 15

D
Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 134
<211> 23
<212> PRT
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<220>
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<223> Gly, Ser or Cys

<220>
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<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (14)..(16)
<223> Any amino acid

79
68

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<220>
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<222> (19)..(23)
<223> Any amino acid; this range may encompass 1-5 residues or
      no residues at all.
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<400> 134
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Xaa
      1           5           10          15

Cys Gly Xaa Xaa Xaa Xaa Xaa
      20
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<210> 135
<211> 24
<212> PRT
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DEF

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<223> Description of Artificial Sequence: Synthetic
      peptide
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      no residues at all.
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<222> (8)
<223> Gly, Ser or Cys
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<220>
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<222> (11)
<223> Gly, Ser or Cys
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<222> (14)..(17)
<223> Any amino acid
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      no residues at all.
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<400> 135
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Xaa
      1           5           10          15

Xaa Cys Gly Xaa Xaa Xaa Xaa Xaa
      20
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<210> 136
<211> 25
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<220>
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<220>
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<223> Gly, Ser or Cys

<220>
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<223> Gly, Ser or Cys

DS
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<222> (14)..(18)
<223> Any amino acid

<220>
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<222> (21)..(25)
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<400> 136
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Cys Gly Xaa Xaa Xaa Xaa Xaa
20 25

<210> 137
<211> 19
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81
69

no residues at all.

<220>
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<223> Any amino acid

<220>
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<222> (15)..(19)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 137
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Cys Ser Arg Ser Cys Gly Xaa Xaa
1 5 10 15

Xaa Xaa Xaa

<210> 138
<211> 19
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DS
<220>
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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
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<222> (8)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (15)..(19)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

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Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Cys Ser Val Ser Cys Gly Xaa Xaa
1 5 10 15

Xaa Xaa Xaa

<210> 139
<211> 19

72
88

<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

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<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (15)..(19)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

DS
<400> 139
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Cys Ser Val Thr Cys Gly Xaa Xaa
1 5 10 15

Xaa Xaa Xaa

<210> 140
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)..(9)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (16)..(20)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

83
89

<400> 140
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Cys Ser Arg Ser Cys Gly Xaa
1 5 10 15

Xaa Xaa Xaa Xaa
20

<210> 141
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

D/S
<220>
<221> MOD_RES
<222> (8)..(9)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (16)..(20)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 141
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Cys Ser Val Ser Cys Gly Xaa
1 5 10 15

Xaa Xaa Xaa Xaa
20

<210> 142
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

24
20

<220>
<221> MOD_RES
<222> (8)..(9)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (16)..(20)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 142
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Cys Ser Val Thr Cys Gly Xaa
1 5 10 15

Xaa Xaa Xaa Xaa
20

<210> 143
<211> 21
<212> PRT
<213> Artificial Sequence

DS

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)..(10)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (17)..(21)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 143
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Cys Ser Arg Ser Cys Gly
1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

<210> 144
<211> 21
<212> PRT
<213> Artificial Sequence

85
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)..(10)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (17)..(21)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

DS
<400> 144
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Cys Ser Val Ser Cys Gly
1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

<210> 145
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)..(10)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (17)..(21)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 145
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Cys Ser Val Thr Cys Gly
1 5 10 15

86
72

Xaa Xaa Xaa Xaa Xaa
20

<210> 146
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

DS
<220>
<221> MOD_RES
<222> (8)..(11)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (17)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 146
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Xaa Cys Ser Arg Ser Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 147
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)..(11)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 147
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Xaa Cys Ser Val Ser Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 148
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

D5
<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)..(11)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 148
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Xaa Cys Ser Val Thr Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 149
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

~~78~~

~~74~~

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)..(12)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (19)..(23)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 149
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Xaa Cys Ser Arg Ser
1 5 10 15

DS
Cys Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 150
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)..(12)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (19)..(23)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 150
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Xaa Cys Ser Val Ser
1 5 10 15

Cys Gly Xaa Xaa Xaa Xaa Xaa
20

89
25

<210> 151
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)..(12)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (19)..(23)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

D5

<400> 151
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Xaa Xaa Xaa Cys Ser Val Thr
1 5 10 15

Cys Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 152
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES

90
28

<222> (10)...(11)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (18)...(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 152
Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Xaa Xaa Cys Ser Arg Ser Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 153
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

DS
<220>
<221> MOD_RES
<222> (1)...(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (15)...(19)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 153
Xaa Xaa Xaa Xaa Trp Ser Pro Cys Ser Arg Ser Cys Gly Xaa Xaa
1 5 10 15

Xaa Xaa Xaa

<210> 154
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES

91
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<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (10)..(11)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 154
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Xaa Xaa Cys Ser Val Ser Cys
1 5 10 15

D5
Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 155
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (15)..(19)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 155
Xaa Xaa Xaa Xaa Xaa Trp Ser Pro Cys Ser Val Ser Cys Gly Xaa Xaa
1 5 10 15

Xaa Xaa Xaa

42

38

<210> 156
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (10)..(11)
<223> Gly, Ser or Cys

D5

<220>
<221> MOD_RES
<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 156
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Xaa Xaa Cys Ser Val Thr Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 157
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (15)..(19)
<223> Any amino acid; this range may encompass 1-5 residues or

93

79

no residues at all.

<400> 157
Xaa Xaa Xaa Xaa Xaa Trp Ser Pro Cys Ser Val Thr Cys Gly Xaa Xaa
1 5 10 15

Xaa Xaa Xaa

<210> 158
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

D5
<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (11)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 158
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Arg Ser Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 159
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

94
80

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (11)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

D5
<400> 159
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Val Ser Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa Xaa
20

<210> 160
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (11)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES

45
81

<222> (18)..(22)

<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 160

Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Val Thr Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 161

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (1)..(5)

DS
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>

<221> MOD_RES

<222> (8)

<223> Gly, Ser or Cys

<220>

<221> MOD_RES

<222> (11)

<223> Gly, Ser or Cys

<220>

<221> MOD_RES

<222> (14)

<223> Any amino acid

<220>

<221> MOD_RES

<222> (17)..(21)

<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 161

Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Cys Gly
1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

<210> 162

<211> 22

46

82

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (11)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (14)..(15)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 162
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 163
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

97
BB

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (11)
<223> Gly, Ser or Cys

<220>
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<222> (14)..(16)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (19)..(23)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

D5

<400> 163
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Xaa
1 5 10 15

Cys Gly Xaa Xaa Xaa Xaa Xaa Xaa
20

<210> 164
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (11)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (14)..(17)
<223> Any amino acid

92
84

<220>
<221> MOD_RES
<222> (20)..(24)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 164
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Xaa
1 5 10 15

Xaa Cys Gly Xaa Xaa Xaa Xaa
20

<210> 165
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

D5
<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (11)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (14)..(18)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (21)..(25)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 165
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Cys Gly Xaa Xaa Xaa Xaa
20 25

<210> 166
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (11)
<223> Gly, Ser or Cys

D5

<220>
<221> MOD_RES
<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 166
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Arg Ser Cys
1 5 10 15

Gly Xaa Xaa Xaa Xaa Xaa
20

<210> 167
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES

<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (11)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 167
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Val Ser Cys
1 5 10 15
Gly Xaa Xaa Xaa Xaa Xaa
20

DS
<210> 168
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<220>
<221> MOD_RES
<222> (8)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (11)
<223> Gly, Ser or Cys

<220>
<221> MOD_RES
<222> (18)..(22)
<223> Any amino acid; this range may encompass 1-5 residues or no residues at all.

<400> 168
Xaa Xaa Xaa Xaa Xaa Trp Ser Xaa Trp Ser Xaa Cys Ser Val Thr Cys
1 5 10 15

101
89

Gly Xaa Xaa Xaa Xaa Xaa
20

DS